

A metal cord with improved fixation of the core wires has at least one central wire assembly, this comprises of the core and at least one braiding it upper wire, with uniformly winded on the central assembly wires of the outer winding.

The wires of the core assembly are twisted one with another, at that the pitch of the twisting of the upper wires of the central assembly is at least 1.1 times smaller than the pitch of twisting of the core, and the pitch of twisting of the outer winding of the metal cord (the outer winding) is the same to the pitch of twisting of the core wires and the central assembly. Over the wires of the outer winding one or several outer winding wires are placed. To provide better penetration of rubber to the structure of the metal cord the most of the wires of the core of central assembly

(assemblies) is two, and the number l of the upper wires of the central assembly (assemblies) is to correspond to the condition:

$$l \leq \frac{\pi}{\arcsin(\frac{d_2}{2d_1 + d_2})} - 1,$$

where d_1 and d_2 - diameter of the wires of the core element and the braiding wires of the central elements, respectively .

That for as well, the number of the wires of the outer winding m corresponds to the condition:

$$m \leq \frac{\pi}{\arcsin(\frac{d_3}{d_3 + 2d_1 + 2d_2})} - 1,$$

where d_3 - diameter of the wires of the outer winding of the metal cord.